

Abarna_day98

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#include <stdio.h>
#include <stdlib.h>

typedef struct {
    int A, C, L, R;
} Breakfast;

int compare(const void *a, const void *b) {
    Breakfast *b1 = (Breakfast *)a;
    Breakfast *b2 = (Breakfast *)b;
    if (b1->C == b2->C) return b2->A - b1->A;
    return b1->C - b2->C;
}

int solveTestCase(int N, Breakfast breakfasts[]) {
    qsort(breakfasts, N, sizeof(Breakfast), compare);
    int changes = 0;

    int maxAttractiveness = breakfasts[0].A;
    for (int i = 1; i < N; i++) {
        if (breakfasts[i].A <= maxAttractiveness) {
            if (breakfasts[i].R > maxAttractiveness) {
                breakfasts[i].A = maxAttractiveness + 1;
                changes++;
            } else {
                return -1;
            }
        }
        if (breakfasts[i].A > maxAttractiveness) {
            maxAttractiveness = breakfasts[i].A;
        }
    }

    return changes;
}

int main() {
    int T;
    scanf("%d", &T);
    while (T--) {
        int N;
        scanf("%d", &N);

        Breakfast breakfasts[N];
        for (int i = 0; i < N; i++) {
            scanf("%d %d %d %d", &breakfasts[i].A, &breakfasts[i].C, &breakfasts[i].L,
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&breakfasts[i].R);  
    }  
  
    int result = solveTestCase(N, breakfasts);  
    printf("%d\n", result);  
}  
  
return 0;  
}
```